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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/741,539	12/19/2003	Farid Nemati	2000.010.00/US	4650
41894	7590	05/12/2005	EXAMINER DANG, PHUC T	
WALTER D. FIELDS FIELDS IP, PS 601 MAIN STREET SUITE 405 VANCOUVER, WA 98660			ART UNIT 2818	PAPER NUMBER
DATE MAILED: 05/12/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/741,539	NEMATI ET AL.
Examiner	Art Unit	
PHUC T. DANG	2818	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on election filed March 30, 2005.
2a) This action is FINAL. 2b) This action is non-final.
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-28 is/are pending in the application.
4a) Of the above claim(s) 12-26 is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) _____ is/are rejected.

7) Claim(s) 1-11, 27 and 28 is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 19 December 2003 is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 121903.

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
5) Notice of Informal Patent Application (PTO-152)
6) Other: ____.

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DETAILED ACTION

1. This application is a CIP of 10/706, 162 filed November 12, 2003.

Restriction/election

2. Applicant's election without traverse of Group I (claims 1-11 and 27-28) filed on March 30, 2005, drawn to a semiconductor device and withdrawn Group II (claims 12-26).

Applicants have the right to file a divisional application covering the subject matter of the non-elected claims.

Information Disclosure Statement

3. The office acknowledges receipt of the following items from the applicant:

Information Disclosure Statement (IDS) filed on December 19, 2003.

Specification

This application is in condition for allowance except for the following formal matters:

4. Claim Objections

Claims 1, 3, 7, 8, 10 and 27 are objected to because of the following reason:

In claim 1, line 5, insert "a" before -- temperature --.

In claim 3, line 3, insert "an" before -- insulating material --.

In claim 7, line 3, insert "a" before -- dielectric --.

In claim 8, lines 9-10, insert "the" before -- temperature --.

In claim 10, line 3, insert "an" before -- oxide --.

In claim 27, line 4, insert "a" before -- temperature --.

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Allowable Subject Matter

5. Claims 1-11 and 27-28 would be allowed.

The following is a statement of reason for the indication of allowable subject matter:

Claims 1, 8 and 27 are considered allowable since the prior art of record and the considered pertinent to the applicant's disclosure does not teach or suggest a plurality of memory cells, at least one of the memory cells comprising a thyristor, and an electrode disposed over a region of the thyristor, and a bias circuit to bias the electrode with a voltage level dependent on temperature as recited in claim 1 and the thyristor comprising an anode/cathode, a cathode/anode, and first and second base regions disposed in contiguous series relationship between the anode/cathode and the cathode/anode, an electrode over one of the first and second base regions and operable under bias to affect an electric field, a temperature dependent bias circuit to bias the electrode with a voltage dependent on the temperature as cited in claim 8 and a semiconductor memory device comprising a thyristor, an electrode capacitively-coupled to one of the base regions of the thyristor, and means for setting a bias level of the electrode dependent on a temperature as cited in claim 27.

Prosecution on the merit is closed in accordance with the practice under Ex Parte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

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When responding to the Office action, Applicants' are advised to provide the Examiner with the line numbers and page numbers in the application and/or references cited to assist the Examiner to locate the appropriate paragraphs.

Conclusion

- 6. Applicants are advised to cancel the non-elected claims of Group II (claims 12-26) in response to the next Office action if the application is considered to be allowed.**
7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuc T. Dang whose telephone number is (571) 272-1776. The examiner can normally be reached on 8:00 am-5:00 pm.
8. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David C. Nelms can be reached on (571) 272-1787. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9306 for regular communications and After Final communications.
9. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

Phuc T. Dang

PD

Dang, Phuc

Primary Examiner

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